THE REMOTE COMPUTER CONTROL (RCC) SYSTEM

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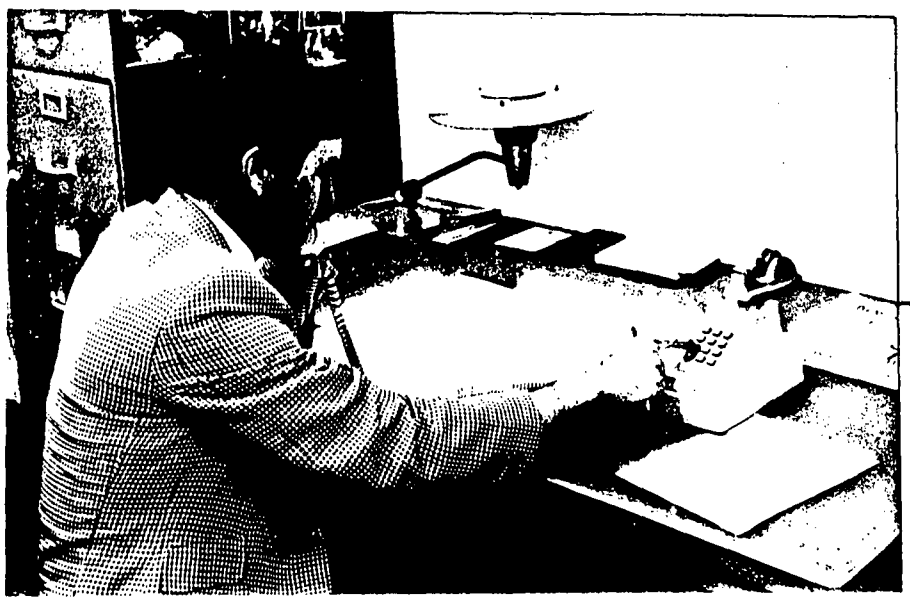
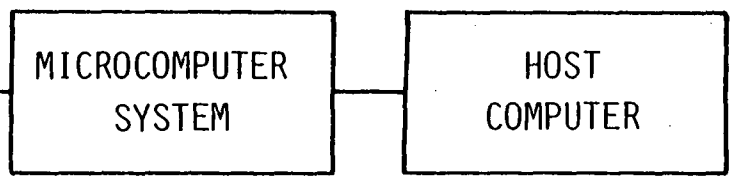
A system to remotely control job flow on a host computer from any touchtone telephone is currently being developed at Goddard Space Flight Center (GSFC). Using this system a computer programmer can submit jobs to a host computer from any touchtone telephone. In addition the system can be instructed by the user to call back when a job is finished. Because of this system every touchtone telephone becomes a conversant computer peripheral. This system known as the Remote Computer Control (RCC) system utilizes touchtone input, touchtone output, voice input, and voice output. The RCC system is microprocessor based and is currently using the INTEL 80/30 microcomputer. Using the RCC system a user can submit, cancel, and check the status of jobs on a host computer. A user can also have the RCC system call when a specified condition is fulfilled. For example, a user could have the RCC call when a specific job has been successfully completed on a host computer.

The peripherals used for communication with the user over the telephone are the MH88205 DTMF Receiver/Decoder by Mitel for touchtone input, the MC14410P integrated circuit by Motorola for touchtone output, the Voice Recognition Module (VRM) by Interstate Electronics for voice input and the ML-I Multi-Lingual Voice System by Federal Screw Works for voice output. The RCC system peripherals consist of a CRT for operator control, a printer for logging all activity, mass storage for the storage of user parameters, and a PROM card for program storage.

This RCC system enables a user to communicate with a host computer and control job flow on a host computer from any touchtone telephone at any time. The use of this system can decrease turnaround time on a host computer by minimizing the time between job termination and user notification of job termination. This system can help distribute the work load of a host computer to off hours by enabling a user to control the host computer job flow from any remote touchtone telephone.

Remote Computer Control





- CONTROL JOB FLOW
- HAVE HOST COMPUTER GENERATE TELEPHONE CALLS UPON REQUEST

Pilot System

- BUY THE DEVICES
- BUILD THE INTERFACES
- PROGRAM THE MICROPROCESSOR

SYSTEM COMMANDS / DEMONSTRATION

- LOGON NUMERIC ID'S CORRELATED WITH VALID HOST COMPUTER ID'S
- SUBMIT JOBS PRE-STORED ON DISK IN HOST MACHINE
- STATUS BY NUMERIC JOB ID
- CANCEL BY NUMERIC JOB ID
- NOTIFY TO ANY TELEPHONE NUMBER
- TERMINATE SESSION